ABSTRACT

A method and system for constructing and visualizing color gamuts allows the color gamut of a ink system with more than four colors to be constructed from a plurality of color data points for colors printed with the ink system. The color data points are put in an additive color space, such as the CIE-XYZ space, and a convex hull is constructed from the color data points. The convex hull is then transferred from the additive color space into a corresponding solid object in a psychometric color space, such as the CIE Lab color space. The solid object represents the color gamut of the ink system and can be displayed as a 3-D object for visualization of the color gamut. The volume of the color gamut can be calculated for comparing with other gamuts. Two or more color gamuts can be displayed together to contrast the differences between them.